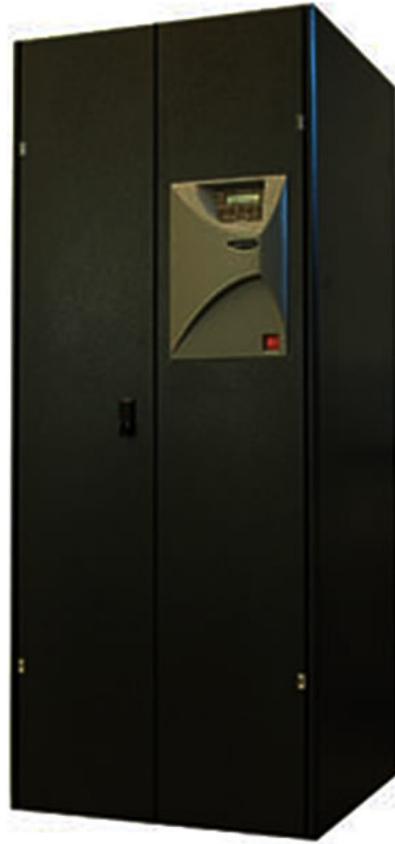


PURE RELIABILITY



**ATLAS UPS** is POWERTRONIX solution delivering premium VFI online double conversion, providing power quality and backup for IT and electrical infrastructures in corporate, medical, banking and industrial applications.

100% designed and made in Italy, **ATLAS UPS** results in the highest levels of reliability and efficiency ( 0.99 input power factor - THDi <5% with harmonic suppression filter on 12pulse configuration - up to 94% efficiency thanks to transformerless inverter ) .

Multilanguage LCD display, RS232 port, voltage dry contacts, intelligent slot for SNMP adapter, all for complete interfacing with BMS systems, while standard features like dual input mains, internal manual bypass, possibility to implement parallel capability, low noise level, flexible battery solutions (additional UPS built-in battery charger available) make **ATLAS UPS** perfect power solution for any 3phase mission critical load, combining proven performance with technical innovation to deliver pure quality.



| MAIN TECHNICAL DATA                       | ATLAS 80   | ATLAS 100 | ATLAS 120 |
|---|--|-----------|-----------|
| UPS Topology                              | VFI On-Line Double Conversion                          |           |           |
| Converter                                 | 3phase SCR Thyristor Conversion (6 or 12pulse version) |           |           |
| Inverter                                  | High frequency IGBT inverter transformerless           |           |           |
| Static switch                             | Electronic static switch plus contactor                |           |           |
| Cooling                                   | Forced air   |           |           |
| Input nominal voltage                     | 3Ph+N 380/400/415V                                     |           |           |
| Input nominal frequency                   | 50 or 60 Hz  |           |           |
| Input frequency tolerance                 | 40 ÷ 70 Hz   |           |           |
| Maximum input current 3Ph+N@400V          |  |           |           |
| Power factor                              | 0.99   |           |           |
| Soft start                                | 0 ÷ 100% in 30 sec                                     |           |           |
| Backfeed protection                       | available  |           |           |
| Input current distortion                  | THDi ≤8% (12pulse vers.)                               |           |           |
| Bypass nominal voltage                    | 3Ph 380/400/415 V                                      |           |           |
| Bypass voltage tolerance                  | ±20%   |           |           |
| Bypass factory setting                    | ±10%   |           |           |
| Bypass nominal frequency                  | 50 or 60 Hz  |           |           |
| Bypass accepted overload                  | 10In per 100ms   |           |           |
| Manual bypass                             | with mechanical lock                                   |           |           |
| Output active power                       | 64   | 80        | 96        |
| Nominal output voltage                    | 3Ph 380/400/415V                                       |           |           |
| Nominal output current 3ph 3Ph+N@400V     | 115A   | 144A      | 172A      |
| Output power factor                       | 0.8  |           |           |
| Output voltage static variation           | ± 1%   |           |           |
| Output voltage dynamic variation          | ± 5%   |           |           |
| Crest factor                              | 3:1  |           |           |
| Output voltage distortion linear load     | ≤ 3%   |           |           |
| Output voltage distortion non linear load | ≤ 7%   |           |           |
| Output frequency                          | 50Hz or 60Hz   |           |           |
| Output frequency stability                | 0.01%  |           |           |
| UPS system efficiency                     | up to 96%  |           |           |
| Overload                                  | 125% for 10 minutes<br>150% for 60 seconds             |           |           |

| MAIN TECHNICAL DATA                     | ATLAS 80  | ATLAS 100     | ATLAS 120     |
|---|---|---------------|---------------|
| Battery type                            | VRLA AGM or GEL   |               |               |
| Number of elements                      | 192   | 192           | 240           |
| Battery nominal voltage                 | 384 Vdc   | 384 Vdc       | 480 Vdc       |
| Battery voltage range                   | 320 ÷ 432 Vdc   | 320 ÷ 432 Vdc | 400 ÷ 540 Vdc |
| Battery maximum charging current        | 25A   | 25A           | 25A           |
| Battery charging profile                | DIN 41733<br>Charging voltage: 810Vdc   |               |               |
| Battery low threshold (factory setting) | 350 Vdc   | 350 Vdc       | 440 Vdc       |
| Battery management & test               | via LCD   |               |               |
| Remote signals                          | Dry contact - remote EPO  |               |               |
| Standard interfaces and protocol        | RS232 port  |               |               |
| Monitoring software                     | UPSMAN & UPSMON   |               |               |
| Communication options                   | web adapter SNMP  |               |               |
| Parallel capability (optional)          | up to 8 units   |               |               |
| <b>MECHANICAL DATA</b>                  |   |               |               |
| Case protection rating                  | IP 20   |               |               |
| Dimensions (WxDxH mm)                   | 700 x 740 x 1800  |               |               |
| Weight kg                               | 350   | 390           | 430           |
| Noise level at 1m                       | 65 dB   |               |               |
| Storing temperature                     | -20°C ÷ +70°C (UPS) +20°C ÷ +30°C (Battery)   |               |               |
| Operating temperature                   | +20°C ÷ +40°C   |               |               |
| Relative humidity                       | 95% non condensing  |               |               |
| Altitude                                | 1000m above MSL without derating (1% derating any 100m up to 2.000m)  |               |               |
| Ventilation                             | multilevel fan  |               |               |
| UPS moving                              | casters   |               |               |
| UPS packaging                           | overseas shipment suitable cartoon box on fumigated wooden pallet   |               |               |
| UPS packaging dimensions (WxDxH mm)     | 1000x1000x2150 mm * 70kg  |               |               |
| <b>STANDARDS</b>                        | European Directives: L V 2006/95/CE low voltage Directive<br>EMC 2004/108/CE electromagnetic compatibility Directive<br>Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2 C2<br>Classification in accordance with IEC 62040-3 VFI - SS - 111 |               |               |

While every precaution has been taken to ensure accuracy and completeness herein, Powertronix assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications subject to be changed without notice.

### Main electrical features

- \* Dual input mains: separated or common
- \* Genset compatibility without any additional equipment
- \* Integrated maintenance bypass
- \* Detection circuit for backfeed protection (additional backfeed device UPS built in or in external panel)
- \* Distributed or shared battery for optimized energy storage and uninterrupted power during strings maintenance
- \* UPS *eco-mode* functional profile for 96% efficiency
- \* Frequency converter profile with or without backup time 60Hz to 50Hz or viceversa

### Main electrical optional features

- \* Parallel capability for redundant or add capacity system configuration (up to 8 units)
- \* Extended runtime in external cabinet matching UPS design
- \* Extended runtime in external cabinet IP20 or open rack, complete of DC breaker
- \* UPS external cabinet galvanic isolation transformer (full system isolation)
- \* UPS I/O phase voltage and frequency configuration settable via LCD
- \* UPS upgrade to double independent outputs
- \* Battery bank disconnection in case of UPS shutdown or according to BMS design
- \* BACS battery advanced care system for constant monitoring and harmonization of individual charging voltages
- \* Battery temperature sensor and supervised battery management dual charging method profile

### UPS connectivity available features for immediate system status info

#### Real time information, real time solution!

- \* User friendly Multilanguage LCD (Russian and Chinese available)
- \* Event log access via LCD for on-site checking & event log download via open software
- \* Dry contact interface complete of 4 change-over contact outputs
- \* Serial connection interface via RS232 for BMS full compatibility
- \* At-a-glance user view for simultaneous monitoring of all UPS systems connected in the same network
- \* Intelligent free slot for additional SNMP interface and ambient sensors (temperature, humidity, smoke etc...)
- \* UPS MAN & MON software for UPS managing and monitoring
- \* Remote LED panel for UPS status
- \* Remote EPO
- \* Remote UPS monitoring service 24/7 - 365
- \* Server, PC and/or virtual machine configured shutdown
- \* e.mail/SMS/pop up UPS status information